

SEQUENCE LISTING

<110> NEUROGEN CORPORATION

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<120> METHODS FOR PREVENTING AND TREATING OBESITY IN PATIENTS WITH
MC4 RECEPTOR MUTATIONS

<130> N02.2100PC

<150> 60/413,321

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<160> 1

<170> PatentIn version 3.1

<210> 1

<211> 332

<212> PRT

<213> Homo Sapiens

<400> 1

Met Val Asn Ser Thr His Arg Gly Met His Thr Ser Leu His Leu Trp
1 5 10 15Asn Arg Ser Ser Tyr Arg Leu His Ser Asn Ala Ser Glu Ser Leu Gly
20 25 30Lys Gly Tyr Ser Asp Gly Gly Cys Tyr Glu Gln Leu Phe Val Ser Pro
35 40 45Glu Val Phe Val Thr Leu Gly Val Ile Ser Leu Leu Glu Asn Ile Leu
50 55 60Val Ile Val Ala Ile Ala Lys Asn Lys Asn Leu His Ser Pro Met Tyr
65 70 75 80Phe Phe Ile Cys Ser Leu Ala Val Ala Asp Met Leu Val Ser Val Ser
85 90 95

Asn Gly Ser Glu Thr Ile Val Ile Thr Leu Leu Asn Ser Thr Asp Thr

100	105	110
Asp Ala Gln Ser Phe Thr Val	Asn Ile Asp Asn Val	Ile Asp Ser Val
115	120	125
Ile Cys Ser Ser Leu Leu Ala Ser	Ile Cys Ser Leu Leu Ser	Ile Ala
130	135	140
Val Asp Arg Tyr Phe Thr Ile Phe Tyr	Ala Leu Gln Tyr His Asn	Ile
145	150	155
Met Thr Val Lys Arg Val Gly Ile Ser	Ile Ser Cys Ile Trp	Ala Ala
165	170	175
Cys Thr Val Ser Gly Ile Leu Phe Ile	Ile Tyr Ser Asp Ser Ser	Ala
180	185	190
Val Ile Ile Cys Leu Ile Thr Met Phe Phe Thr	Met Leu Ala Leu Met	
195	200	205
Ala Ser Leu Tyr Val His Met Phe Leu Met	Ala Arg Leu His Ile Lys	
210	215	220
Arg Ile Ala Val Leu Pro Gly Thr Gly Ala	Ile Arg Gln Gly Ala Asn	
225	230	235
Met Lys Gly Ala Ile Thr Leu Thr Ile Leu	Ile Gly Val Phe Val Val	
245	250	255
Cys Trp Ala Pro Phe Phe Leu His Leu	Ile Phe Tyr Ile Ser Cys Pro	
260	265	270
Gln Asn Pro Tyr Cys Val Cys Phe Met Ser	His Phe Asn Leu Tyr Leu	
275	280	285
Ile Leu Ile Met Cys Asn Ser Ile Ile Asp	Pro Leu Ile Tyr Ala Leu	
290	295	300
Arg Ser Gln Glu Leu Arg Lys Thr Phe Lys	Glu Ile Ile Cys Cys Tyr	
305	310	315
Pro Leu Gly Gly Leu Cys Asp Leu Ser	Ser Arg Tyr	
325	330	